

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275467

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

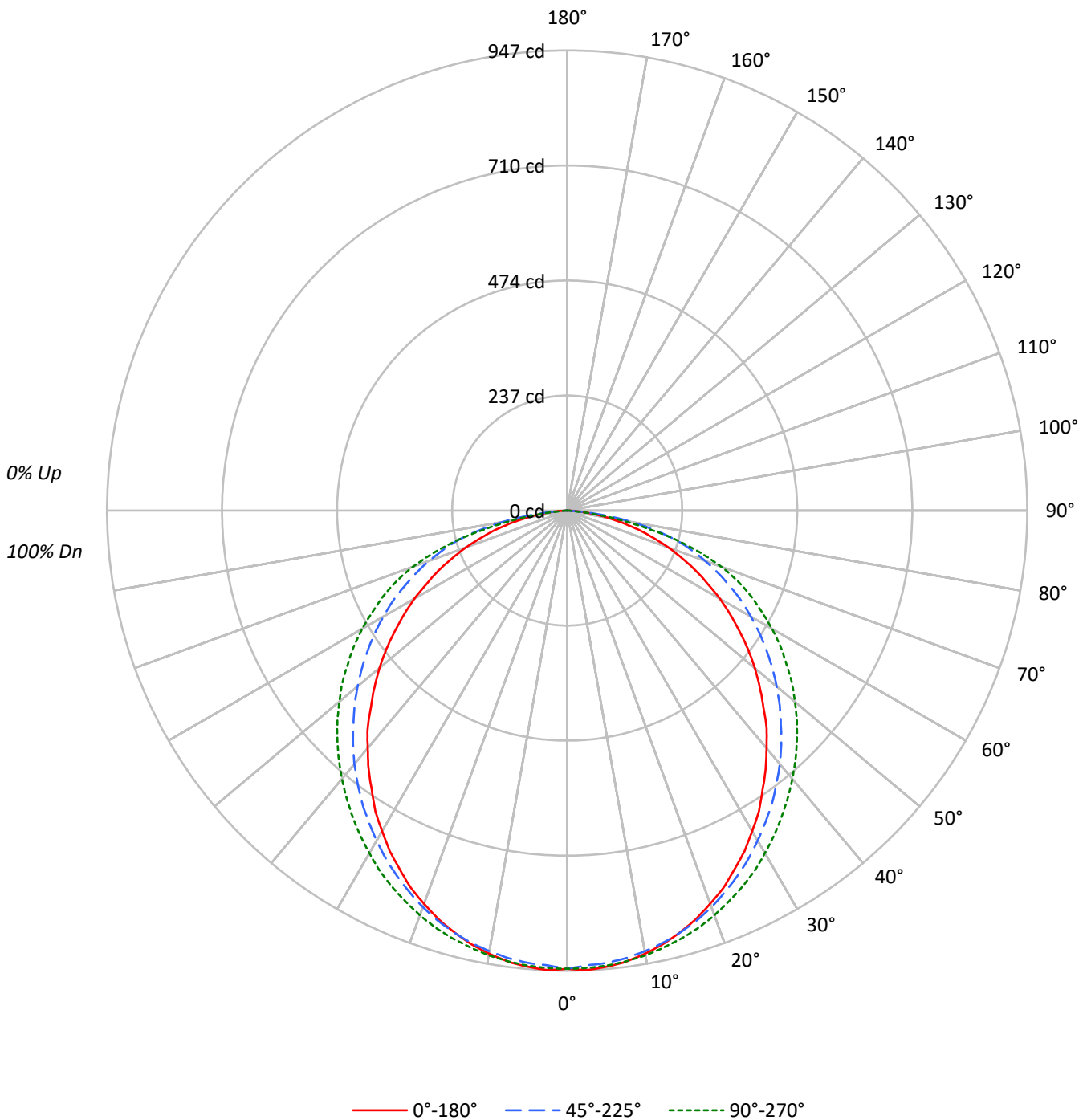
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275467

CATALOG NUMBER: 14CZ2-29-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P275467

CATALOG NUMBER: 14CZ2-29-UNV-L82765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2537	2537	2537
5°	2545	2524	2539
10°	2530	2516	2540
15°	2503	2505	2539
20°	2466	2487	2538
25°	2419	2463	2535
30°	2367	2437	2530
35°	2303	2416	2528
40°	2243	2393	2532
45°	2174	2367	2546
50°	2110	2356	2563
55°	2030	2348	2586
60°	1957	2352	2621
65°	1857	2358	2662
70°	1743	2377	2660
75°	1580	2399	2405
80°	1296	2072	1712
85°	960	979	395



TEST NUMBER: P275467

CATALOG NUMBER: 14CZ2-29-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.3
10°-20°	254.9	9.3
20°-30°	383.9	14.0
30°-40°	460.7	16.8
40°-50°	480.2	17.5
50°-60°	444.6	16.2
60°-70°	359.2	13.1
70°-80°	219.0	8.0
80°-90°	45.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	728.0	26.6
0°-40°	1188.8	43.4
0°-60°	2113.6	77.2
0°-90°	2737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	942	940	934	941	940	89
15°	898	899	899	911	911	253
25°	815	820	829	850	854	376
35°	701	712	735	762	770	439
45°	571	588	622	657	669	442
55°	433	455	500	540	551	388
65°	292	320	370	408	418	288
75°	152	186	231	234	231	160
85°	31	46	32	18	13	38
90°	0	0	0	0	0	



TEST NUMBER: P275467

CATALOG NUMBER: 14CZ2-29-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.9	942.9	942.9	942.9	942.9
2.5°	946.6	943.5	936.8	943.5	942.3
5°	942.3	939.9	934.4	941.1	939.9
7.5°	936.2	933.8	928.9	936.8	935.6
10°	925.8	924.6	920.9	930.1	929.5
12.5°	913.6	913.0	911.2	921.5	920.9
15°	898.4	899.0	899.0	911.2	911.2
17.5°	881.3	882.5	884.9	898.4	900.2
20°	861.1	863.6	868.4	883.7	886.1
22.5°	840.4	842.2	849.5	867.8	870.3
25°	814.7	819.6	829.4	850.1	853.8
27.5°	790.3	794.6	808.0	829.4	835.5
30°	761.6	768.4	784.2	807.4	814.1
32.5°	734.2	741.5	759.8	786.7	792.8
35°	701.2	712.2	735.4	762.3	769.6
37.5°	671.3	681.7	707.9	737.2	745.8
40°	638.4	651.2	681.1	712.2	720.8
42.5°	607.9	620.1	652.4	684.1	695.7
45°	571.2	588.3	621.9	656.7	668.9
47.5°	537.7	554.8	593.2	630.4	641.4
50°	504.1	522.4	562.7	601.1	612.1
52.5°	469.3	488.8	532.2	570.6	583.4
55°	432.7	455.3	500.4	539.5	551.1
57.5°	397.9	421.1	469.3	509.0	520.6
60°	363.7	387.5	437.0	474.8	487.0
62.5°	325.9	354.0	405.2	442.5	451.6
65°	291.7	320.4	370.4	407.7	418.1
67.5°	255.7	286.8	336.9	371.1	380.8
70°	221.5	253.9	302.1	333.8	338.1
72.5°	184.9	217.9	266.7	286.8	286.8
75°	152.0	185.5	230.7	234.4	231.3
77.5°	116.0	153.2	182.5	175.2	167.8
80°	83.6	120.2	133.7	120.2	110.5
82.5°	56.1	87.3	80.6	64.1	56.8
85°	31.1	46.4	31.7	17.7	12.8
87.5°	11.6	10.4	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)